Approved For Release 2001/07/28 GIA-RDP78-02820A000300020019-6

The Files

26 September 1957

25X1A9a

Conference Report - 25X1A5a1

1. A conference was held September 17 and 18, 1957 in the R+D/E25X1A5a1 office with a representative of the with Tasks 2, 3 and 5. Those in attendance were:

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2. Task 2 - An estimate for adapting the standard AS-4 equipment for modified high-speed processing was submitted for consideration. This adaptation would consist of adding one or a pair of Soroban perforators operating at on-line speed with the necessary electronic circuitry to drive the punches. For a single punch, the first unit deliverable in about 6 months, the approximate cost would be:

let unit \$34,415 2nd unit 30,674 3rd unit 26,680 Total \$91,769

For a pair of punches the cost would be:

lat unit \$50,479 2nd unit \$4,835 3rd unit \$40,183 Total \$135,497

- 3. This high-speed processing capability is not going to be considered at present. The AS-4A high-speed processing system will be evaluated first, then a decision can be reached.
- 4. Task 3 An estimate of the cost for preparing manufacturing25X1A5a1 drawings was submitted by the The price for 1500 drawings would be about \$205,000 about \$140 per drawing. The AS-4A system is yet to be evaluated. Doubtless this evaluation will lead to changes in equipment design and circuitry and subsequently to drawing changes prior to production. Therefore, this proposal is being rejected as not feasible at this time.

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5. The propertors is	roblem of r	ewinding the	punched	tape from t	he Soroben	05V4
perforators is	to be solv	ed by the			There	Ls 25XTA5aT
adequate space	for insert	ing torque m	otors to	accomplish .	this.	

- Two KX-3 cryptographic machines for use with the AS-4A system will be delivered to Washington, D. C. in November.
- mentioned they are considering that sampling for 25X1A5a1 error correction can be done earlier than the main pulse, in a space just before the main pulse where multipath has died out.
- 6. The possibility of employing FEK instead of the present onoff high power keying has been suggested. A gain of a few db is claimed. However, there would be a loss of power from the 231-D transmitter using FR. More information is needed on this matter.
- 9. Tesk 5 Several topics were considered in connection with this High Speed Field Station, AS-5.
 - Do we want to use plug-in front ends for the receiver instead of autotune units or possibly a turret tuner for switching of the 10 channels? More information to snever 25X1A5a1 is required from the thie.

- 2. The available input power requirements were given as: a peak power of 2-22 kilowatts; line voltage 90-140 volts, 180-280 volts; 45-60 cycles, single phase.
- 3. The transmitter tuning might be changed as often as once a month. The exciter should be replaceable with replaceable modules.
- Tuning can be accomplished with radiated CW power reduced for about 20 seconds.
- Antenna impedance and antenna coupler requirements are 25X1A5a1 to be furnished to the at a later date.
- An antenna of variable length controlled by a motor driven reel was suggested for use with the A6-5.
- A linear power amplifier will be acceptable if it costs little in efficiency, size or weight.
- 8. An imput device considered for the AS-5 is the flexovriter. This can produce hard copy, perforate tape and provide inputs for a memory unit. It is possible to play the output of the AS-5 back into the same flexowriter. The approximate cost is \$3000. Such a device is attractive for our use. For an output device, however, a high-speed tape printer



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9. The question of synchronizing by blank insertion or selfsynchronization using punched tape was brought up. The use of blank insertion was rejected if there were to be an advance in sprocket holes since this would negate any encipherment.

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cc: R+D Subject File

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